

Study Information For
Product Registration - Section 3
85249-1

MRID	Citation	Receipt Date
47544800	HeiQ Materials AG (2008) Submission of Product Chemistry and Toxicity Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 9 Studies.	18-Sep-2008
47544801	Height, M. (2008) Product Chemistry in Support of HeiQ AGS-20--Group A. Project Number: HQ/EPA/0801. Unpublished study prepared by HeiQ Materials AG. 89 p.	18-Sep-2008
47544802	Zipperitz, C. (2008) Quantification of Silver in Five Batches of HeiQ AGS-20 and Validation of the Analytical Method. Project Number: B90494. Unpublished study prepared by RCC, Ltd. 48 p.	18-Sep-2008
47544803	Gaughan, R. (2008) Product Chemistry of HeiQ AGS-20 Group B Physical/Chemical Properties. Project Number: B91168, HQ/RRG/08/02, B91203. Unpublished study prepared by RCC, Ltd. and Gaughan Consulting. 189 p.	18-Sep-2008
47544804	Simon, C. (2008) Acute Oral Toxicity Study in Rats: HeiQ Silver Additive. Project Number: B66554. Unpublished study prepared by RCC, Ltd. 33 p.	18-Sep-2008
47544805	Simon, C. (2008) Acute Dermal Toxicity Study in Rats: HeiQ Silver Additive. Project Number: B66565. Unpublished study prepared by RCC, Ltd. 36 p.	18-Sep-2008
47544807	Simon, C. (2008) Primary Eye Irritation Study in Rabbits: HeiQ Silver Additive. Project Number: B66587. Unpublished study prepared by RCC, Ltd. 51 p.	18-Sep-2008
47544808	Simon, C. (2008) Primary Skin Irritation Study in Rabbits (4-Hour Semi-Occlusive Application): HeiQ Silver Additive. Project Number: B66576. Unpublished study prepared by RCC, Ltd. 46 p.	18-Sep-2008
47544809	Simon, C. (2008) Contact Hypersensitivity in Albino Guinea Pigs, Buehler Test: HeiQ Silver Additive. Project Number: B66598. Unpublished study prepared by RCC, Ltd. 61 p.	18-Sep-2008
47570500	HeiQ Materials AG (2008) Submission of Toxicity Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 1 Study.	15-Oct-2008
47570501	Decker, U. (2008) HeiQ Silver Additive: 4-Hour Acute Inhalation Toxicity Study in Rats: Final Report. Project Number: B66611. Unpublished study prepared by RCC, Ltd. 64 p.	15-Oct-2008
47728700	HeiQ Materials AG (2009) Submission of Environmental Fate Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 1 Study.	16-Apr-2009
47728701	Height, M. (2009) Are Silver Particles Released from Textiles Treated with the HeiQ AGS-20 Silver Additive? Unpublished study prepared by Tex-a-Tec AG. 22 p.	16-Apr-2009
47757500	HeiQ Materials AG (2009) Submission of Toxicity, Exposure and Risk Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 8 Studies.	22-May-2009
47757501	Height, M. (2009) Special Leaching Study for HeiQ AGS-20. Project Number: HEIQ/PT/019/02. Unpublished study prepared by HeiQ Materials AG. 16 p.	22-May-2009

47757502	Height, M. (2009) Occupational Exposure to Nanostructured Particles: Supplemental Study in Support of HeiQ AGS-20. Project Number: HEIQ/PT/019/03. Unpublished study prepared by HeiQ Materials AG. 18 p.	22-May-2009
47757503	Height, M. (2009) Efficacy of HeiQ AGS-20 versus Conventional Silver Additives. Project Number: HEIQ/PT/019/04. Unpublished study prepared by HeiQ Materials AG. 10 p.	22-May-2009
47757504	Height, M. (2009) Environmental Exposure Modeling: Supplemental Study in Support of HeiQ AGS-20. Project Number: PT/019/05, ES7029637, HEIQ/PT/019/05. Unpublished study prepared by HeiQ Materials AG. 13 p.	22-May-2009
47757505	Height, M. (2009) HeiQ AGS-20 Toxicity Supplement. Project Number: PT/019/06. Unpublished study prepared by HeiQ Materials AG. 16 p.	22-May-2009
47757506	Height, M. (2009) HeiQ AGS-20 Effects and Exposure Assessment. Project Number: HEIQ/PT/019/07. Unpublished study prepared by HeiQ Materials AG. 31 p.	22-May-2009
47757507	Height, M. (2009) Estimation of Cumulative Aquatic Exposure and Risk Due to Silver: Contribution of Nano-Functionalized Plastics and Textiles. Project Number: PT/019/08. Unpublished study prepared by HeiQ Materials AG. 20 p.	22-May-2009
47757508	Height, M. (2009) HeiQ AGS-20: Supplemental Information Regarding Toxicity to Fresh Water Algae. Project Number: PT/019/09. Unpublished study prepared by HeiQ Materials AG. 13 p.	22-May-2009
47795300	HeiQ Materials AG (2009) Submission of Environmental Fate, and Exposure and Risk Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 2 Studies.	06-Jul-2009
47795301	Height, M. (2009) HeiQ AGS-20: Supplemental Information Regarding Nitrification Inhibition by Silver Nanoparticles. Project Number: HEIQ/PT/019/10. Unpublished study prepared by HeiQ Materials AG. 10 p.	06-Jul-2009
47795302	Height, M. (2009) HeiQ AGS-20: The Speciation of Silver Nanoparticles in Antimicrobial Fabric. Project Number: HEIQ/PT/019/11. Unpublished study prepared by HeiQ Materials AG. 9 p.	06-Jul-2009
47839100	HeiQ Materials AG (2009) Submission of Environmental Fate Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 2 Studies.	27-Aug-2009
47839101	Height, M. (2009) Supplement to MRID 47728701: (Are Silver Particles Released from Textiles Treated with HeiQ AGS-20 Silver Additive?): Response to EPA Letter of July 24, 2009. Project Number: PT/019/12. Unpublished study prepared by HeiQ Materials AG. 25 p.	27-Aug-2009
47839102	Height, M. (2009) Supplement to MRID 47728701: (Are Silver Particles Released From Textiles Treated with HeiQ AGS-20 Silver Additive?): Behavior of Silver Nano-Textiles during Washing. Project Number: PT/019/13. Unpublished study prepared by HeiQ Materials AG. 30 p.	27-Aug-2009
47934400	HeiQ Materials AG (2009) Submission of Environmental Fate, and Exposure and Risk Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 2 Studies.	16-Dec-2009
47934401	Meyer, M.; Height, M. (2008) Toxicity of HeiQ AGS-20 Powder and HeiQ AGS-20 TF	16-

	Textile Finish in Municipal Wastewater Treatment. Project Number: PT/019/14. Unpublished study prepared by Tex-a-Tec AG. 15 p.	Dec-2009
47934402	Height, M. (2009) Risk Assessment of HeiQ AGS-20. Project Number: PT/019/13/A. Unpublished study prepared by HeiQ Materials AG. 29 p.	16-Dec-2009
48022100	HeiQ Materials AG (2010) Submission of Product Chemistry, Toxicity, and Exposure and Risk Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 1 Study.	15-Mar-2010
48022101	Height, M. (2010) Response to EPA Reviews of Submissions for HeiQ AGS - 20. Project Number: PT/019/14. Unpublished study prepared by HeiQ Materials AG. 13 p.	15-Mar-2010
48085800	HeiQ Materials AG (2010) Submission of Public Interest Document for AGS-20. Transmittal of 1 Study.	06-May-2010
48085801	Height, M. (2010) Registration of HeiQ AGS-20 is in the Public Interest. Project Number: PT/019/16. Unpublished study prepared by HeiQ Materials AG. 19 p.	06-May-2010
48098300	HeiQ Materials AG (2010) Submission of Toxicity and Exposure and Risk Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 1 Study.	17-May-2010
48098301	Height, M. (2010) HeiQ AGS-20 Safety. Project Number: PT/019/17. Unpublished study prepared by HeiQ Materials AG. 17 p.	17-May-2010
48296900	HeiQ Materials AG (2010) Submission of Economic and Efficacy Data in Support of the Application for Registration of HeiQ AGS-20. Transmittal of 1 Study.	12-Nov-2010
48296901	Height, M. (2010) Supplement to MRID 48085801: Registration of HeiQ AGS-20 is in the Public Interest: Final Report. Project Number: PT/019/19. Unpublished study prepared by HeiQ Materials AG. 29 p.	12-Nov-2010
48788000	HeiQ Materials AG (2012) Submission of Product Chemistry Data in Support of the Registration of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 3 Studies.	02-Apr-2012
48788001	Height, M. (2012) Supplement to MRID 47544803: Product Chemistry of HeiQ AGS-20-Group B-830.6313. Project Number: HQE/A/003. Unpublished study prepared by HeiQ Materials AG. 6p.	02-Apr-2012
48788002	Weissenfeld, M. (2010) Determination of the Storage Stability (Shelf-Life) and Corrosion Characteristics: HeiQ AGS-20. Project Number: B91170. Unpublished study prepared by Harlan Laboratories, Ltd. 48p.	02-Apr-2012
48788003	Height, M. (2012) HeiQ AGS-20 Solubility Supplement to MRID 47544803: Release of Silver into Aqueous Media. Project Number: SUPPLEMENT/C41595. Unpublished study prepared by HeiQ Materials AG. 80p.	02-Apr-2012
48821600	HeiQ Materials AG (2012) Submission of Product Chemistry Data in Support of the Registrations of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	04-May-2012
48821601	Height, M. (2012) HeiQ AGS-20 Surface Area Determination. Project Number:	04-

	PR120316/001, PR120308/10, HQE/A/002. Unpublished study prepared by Micromeritics Analytical Services. 62p.	May-2012
48854400	HeiQ Materials AG (2012) Submission of Product Chemistry Data in Support of the Registration of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	06-Jun-2012
48854401	Height, M. (2012) HeiQ AGS-20 Particle Size and Diameter (Size) Distribution. Project Number: HQE/A/001. Unpublished study prepared by Intertek ASG. 258p.	06-Jun-2012
48878800	HeiQ Materials AG (2012) Submission of Product Chemistry Data in Support of the Registrations of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	29-Jun-2012
48878801	Height, M. (2012) HeiQ AGS-20 UV-Visible Light Absorption. Project Number: HQE/A/004. Unpublished study prepared by Micromeritics Analytical Services and MVA Scientific Consultants. 22p.	29-Jun-2012
48957800	HeiQ Materials AG (2012) Submission of Product Chemistry Data in Support of the Registration of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	01-Oct-2012
48957801	Height, M. (2012) HeiQ AGS-20 Surface Area Determination: Replaces MRID 48821601. Project Number: PR120316/001, PR120308/10, HQE/A/002B. Unpublished study prepared by Micromeritics Analytical Services. 125p.	01-Oct-2012
49141000	HeiQ Materials AG (2013) Submission of Exposure and Risk Data in Support of the Registrations of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	03-Jun-2013
49141001	Height, M. (2013) Release of Silver from Textiles. Project Number: HQE/A/005. Unpublished study prepared by EMPA (Swiss Federal Laboratories for Materials Science and Technology). 90p.	03-Jun-2013
49165500	HeiQ Materials AG (2013) Submission of Product Chemistry Data in Support of the Registration of HeiQ. Transmittal of 1 Study.	02-Jul-2013
49165501	Height, M. (2013) Non-Guideline Dissolution Kinetics Study. Project Number: HQE/A/007/2. Unpublished study prepared by EMPA (Swiss Federal Laboratories for Materials Testing &). 37p.	02-Jul-2013
49203400	HeiQ Materials AG (2013) Submission of Environmental Fate Data in Support of the Applications for Registration of HeiQ AGS-20 U and HeiQ AGS-20. Transmittal of 1 Study.	27-Aug-2013
49203401	Height, M. (2013) Non-Guideline Dissolution Kinetics Study (Silver Nanoparticles). Project Number: HQE/A/007/2. Unpublished study prepared by EMPA (Swiss Federal Laboratories for Materials Science and Technology). 34p.	27-Aug-2013
49327300	HeiQ Materials AG (2014) Submission of Exposure Data in Support of the Conditions of Registration of Dissolution Kinetics. Transmittal of 1 Study.	27-Feb-2014
49327301	Height, M. (2014) Non-Guideline Dissolution Kinetics Study. Project Number: HQE/A/007/2. Unpublished study prepared by EMPA (Swiss Federal Laboratories for Materials Science and Technology). 34p.	27-Feb-2014
49496600	HeiQ Materials AG (2014) Submission of Environmental Fate Data in Support of the Registrations of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 1 Study.	23-Oct-2014
49496601	Height, M. (2014) Release Properties and Data Program Review HeiQ AGS-20. Project Number: HQE/A/011, HQE/A/007/2, HQE/A/005. Unpublished study prepared by HeiQ Materials AG. 28p.	23-Oct-2014
49710100	HeiQ Materials AG (2015) Submission of Toxicity Data in Support of the Registrations	31-

	of HeiQ AGS-20 U and HeiQ AGS-20. Transmittal of 2 Studies.	Aug-2015
49710101	Height, M. (2015) HeiQ AGS-20: Acute Toxicity to Daphnia magna in a 48-Hour Immobilization Test. Project Number: HQE/A/009, C51383. Unpublished study prepared by Harlan Laboratories AG. 42p.	31-Aug-2015
49710102	Height, M. (2015) Critical Analysis of Tier II Decision Basis: HeiQ AGS-20. Project Number: HQE/A/012. Unpublished study prepared by HeiQ Materials AG. 12p.	31-Aug-2015
49740300	HeiQ Materials AG (2015) Submission of Toxicity Data in Support of the Registration of HeiQ AGS-20 and HeiQ AGS-20 U. Transmittal of 3 Studies.	30-Sep-2015
49740301	Height, M. (2015) 28-Day Dermal Toxicity (Rat), HeiQ AGS-20. Project Number: HQE/A/013. Unpublished study prepared by HeiQ Materials AG. 8p.	30-Sep-2015
49740302	Height, M. (2015) Reproduction/Developmental Toxicity Screening Test, HeiQ AGS-20. Project Number: HQE/A/014. Unpublished study prepared by HeiQ Materials AG. 23p.	30-Sep-2015
49740303	Height, M. (2015) in vitro micronucleus (MN) assay, HeiQ AGS-20. Project Number: HQE/A/015. Unpublished study prepared by HeiQ Materials AG. 7p.	30-Sep-2015
50534300	HeiQ Materials AG (2018) Submission of Toxicity and Product Chemistry Data in Support of the Amended Registration of HeiQ AGS-20 U. Transmittal of 2 Studies.	26-Feb-2018
50534301	McKay, M. (2018) Response to EPA Conditional Data Requirements: Vol 1. Project Number: HQE-A-016, 421. Unpublished study prepared by HeiQ Materials AG. 28p.	26-Feb-2018
50534302	McKay, M. (2018) Response to EPA Conditional Data Requirements: Vol 2 Product Characteristics in Support of HeiQ (R) AGS-20. Project Number: PT-019-18. Unpublished study prepared by HeiQ Materials AG. 38p.	26-Feb-2018
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